

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "j.w. thornton" <dub@oklahoma.net>
Subject: [17928] 38A Thump cure:
Message-ID: <3.0.32.19970420224742.0073e1a0@okc.oklahoma.net>

Hey y'all: My thumps are fairly minor, a bit objectionable, but entire liveable. That is up to about 33WPM. Above 33WPM, the thumps drown out the sidetone to the point that the rig is totally unuseable at the higher speeds. I would like to eliminate the thumps, but not at the expense of fast acting QSK. As is, the QSK is excellent, allowing me to hear a break at any speed I can run (currently up to 33wpm). Can anyone tell me if Neils thump cure allows the receiver to recover quickly enough that it does not slow the QSK down?? "72"

Dub WA5YFY
J. W. (Dub) Thornton
QRP-1 # 159
ARCI #6982
NW QRP # 427
Minco, Okla. 73059

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [17913] 38S: Gary's mod to D6, transmit offset
Message-ID: <1997Apr21.095448-0400@[130.113.234.7]>

38s Users:

Gary Surrency, AB7MY related how RF crud was getting into U3's local oscillator via D6 cathode. Some experimenting this weekend here verified Gary's analysis - his detailed explanation is bang-on.

Let me urge everyone to make this mod: add a bypass capacitor from the cathode of D6 to ground. I found that a 0.001uf was not enough, had to use a 0.01uf.

The CMOS switch that drives this line has an output impedance of about 50 ohms, and any "ground-loop"-induced crud would have even lower impedance. So it takes a good capacitor (disk or ceramic) with almost zero lead-length to make an effective RF bypass. This capacitor should be added right at D6's cathode.

What should this mod aid?

If you're not satisfied with your 38s's transmit offset frequency shift, this may be the cure. Like Gary, I was puzzled by D6 seeming not to cause a proper offset. Once the capacitor was added, the offset was much more

inline with the way it's supposed to work.

Gary's original goal was to cure a chirp. This capacitor should help.

If your rig seems unstable, this capacitor should be added. Although instability could be caused by a different ground loop, this is an important one that should be addressed. While transmitting, D6 provides a feedback path from U4 back into U3's mixer. This can cause spurs, and general transmit instability.

Could it cure the thump?

Likely not. D6 switches very quickly, and independently of U2's CMOS switches. The crud from D6 can easily cause a DC offset (when switching between transmit/receive or receive/transmit), but should be rejected by the delayed switching times of U2.

Glen VE3DNL

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: bjacob@iofc.com

Subject: [17930] ::: ASTRON POWER SUPPLY << your input needed >>

Message-ID: <199704201328.XAA25623@iofc.com>

QRP fans,

I am looking into one of the ASTRON brand switching power supplies, and would like to hear from anyone who has used any of the following:

SS-10

SS-12

SS-18

I am especially interested in how QUIET these supplies are on 80 and 40 CW. I've heard that they are notorious for generating a "hash" on these freqs. I hope that is not true, as I find the size and weight of these units attractive for powering QRP rig at home.

Anyone?

Jacob Worthington

AA4FM

Conway, Arkansas, USA

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: n5zgt@swcp.com (Brian Mileschosky)
Subject: [17888] Albuquerque, NM Tailgate Swapfest
Message-ID: <199704210108.TAA12186@kitsune.swcp.com>

Hello Gang,

For those of yu who live in New Mexico, or will be travelling to Albuquerque this weekend, there will be a tailgate swapfest on the 26th! Here is the info:

Albuquerque Tailgate Swapfest

WHEN: Saturday, April 26th
TIME: Early (Around 7AM?) - Whenever everybody leaves!
WHERE: St. Paul's United Methodist Church
9500 Constitution NE, Albuquerque
WHY: To buy, sell & trade Amateur Radio equipment.
TALK-IN: 147.06 (+, 100 Hz PL), 146.90 (-, 67 Hz PL),
or 147.15 (+, No PL) Albuquerque Repeaters.
FEES: None. Free admission, Free tailgating!

For more information, please contact Chuck, KC5GA. Bring your equipment, and some cash and make some room in the shack for a new toy or two, and get ready to have a good time!

=====> SPREAD THE WORD! <=====

72,
Brian, N5ZGT

Boy Scouts of America	Amateur Radio - N5ZGT
Eagle Scout (12-6-96)	ARRL QRP: NorCal# 1700 QRP-L# 580 AK/QRP # 125
JASM - Troop 41	Author of Worldradio's "Youth Forum" Column
Albuquerque, N.M.	Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NOAM
O.A. Lodge 66 <-W-W-W-<<	Internet: n5zgt@swcp.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Craig LaBarge <LaBarge_C@compuserve.com>
Subject: [17886] Antenna Experiments

Message-ID: <199704202054_MC2-14A2-174D@compuserve.com>

Gang:

The weather was pretty good here today (Sunday) in southeastern PA, so I thought I'd do a little antenna experimenting in preparation for QTTF next week. I went down to the local schoolyard (where I will likely be operating next week) and set up a vertical based on the SLV. I used some #22 wire for the vertical radiator. I used some B&W coil stock for a loading coil positioned about 7 feet off the ground with a clip lead to change taps. I also used 4 radials made from Radio Shack 3-conductor rotor cable, 1/4 wave each for 40, 30, and 20 meters. As measured with an Autek RF-1 at the base of the antenna, the best SWR I could get on any of the 3 bands was about 2:1. Since the radiating element on 20 meters was longer than a 1/4 wave, I used a series trimmer cap at the base of the antenna to resonate it. (Unfortunately, the cap I chose "ran out of room" in its tuning range, so I could only get 20 meters down to about 2.5:1 or so.) With this type of matching on 20 meters, about 2:1 is about what I expected. But I expected the impedance to be a bit lower, though on 30 and 40.

What kind of feed point impedance is normal for a vertical like this with 4 radials on the ground? Does the higher feedpoint impedance have to do with ground losses?

73, Craig WB3GCK

P.S. While I had it set up, I tried to see if I could use the Black Widow rod for the center support for an end-fed inverted vee. Yikes, way too whippy to support a 66' wire antenna like that! I guess it's back to the trees for that antenna. :-)

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: duane <duane@flinet.com>

Subject: [17899] antenna mast photo

Message-ID: <01BC4DF2.4DE970A0@pm10-4.flinet.com>

Go to my download page to view the portable PVC antenna mast
It's much easier to understand than my description.

duane@flinet.com - mail address

<http://www.flinet.com/~duane> My WWW Homepage

<http://www.flinet.com/~duane/ham/ham.html> My WWW Ham Radio Page

ab4be@amsat.org second mail address

<http://www.flinet.com/~duane/download/download.html> My download page
QRP-L # 710

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [17937] ARK 30 mods request favor
Message-ID: <19970421.121141.6662.3.gsurrency@juno.com>

Gang,

Ok, since I didn't get any response the first time I sent this, I'll try it again.

Please excuse the bandwidth, and as always, thanks in advance.

Does anyone have the bandpass filter mod I posted here last year, maybe it was sometime in August, that eliminated the BCI problem on the ARK 30? If I knew the exact date, I would pull it off the FTP archives.

This was the mod that replaces the second RF bandpass filter with a toroid transformer-type filter built on a little PC board. I had all the details in that mod, including the dimensions, etc.

Pete, WB9FLW, is building an ARK 30 and requested that mod, but I seem to have misplaced it somewhere, or it got clobbered when I upgraded Netscape once. I would really appreciate it, and I know Pete would too. Thanks!

I'm still looking for a printout of it, but no success so far. Dunce cap is on here.

<:-(

vy 72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: QLF@mimi@magic.itg.ti.com

Subject: [17921] BAD URL??
Message-ID: <9704211543.AA23113@itg.ti.com>

From: Brad Bradfield QLF

Subj: BAD URL??

Morning y'all,

Sometime back I copied down a URL from this list for a toroid design program. I didn't try it for a long time and when I did, the internet does not recognize the domain name. The URL is:

< www.cheeng.ed.ac.uk/people/jack/personal/radio/design_toroid.html >.

I have to assume that it has either moved or I copied the URL down wrong (most likely!) Can anyone help me with this?

Oh, well.

72's es 73's,

Brad, WB0CGH

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*****
Brad Bradfield, PE                               Electrical Design Engineer
(H) 817-321-2960                                Texas Instruments, Inc.
(W) 972-462-6230                                (Soon to be: Raytheon/TI Systems)
                                                Real men talk with their fingers!
```

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72
Collector of wireless and landline Morse keys and accessories.

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*****
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From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
Subject: [17950] Centennial SSB xcvr -- Parts List
Message-ID: <Pine.A32.3.93.970421172627.25832A-100000@weyl.math.Virginia.EDU>

Just got my 80m Centennial SSB xcvr kit from Dan's Small Parts.
Can't start building until May (my consolation prize for not going to
FDIM this year).

Thought some of you might like to see the parts list:

27	0.1 MONO CAP
6	10 MFD/16V ELECTROLYTIC CAP
1	1.0 MFD/16V
3	100 MFD/35V
3	47 PF NPO DISK CERAMIC
2	39 PF NPO DISK CERAMIC
4	330 PF NPO DISK CERAMIC
2	0.005 MFD DISK CERAMIC
2	0.01 MFD DISK CERAMIC 50VDC OR BETTER
6	15 PF DISK CERAMIC
2	820 PF DISK OR POLY
1	1500 PF DISK OR POLY
11	100 OHM 1/4W
1	10K OHM 1/4W
2	100K OHM 1/4W
3	10 OHM 1/4W
2	1K OHM 1/4W
2	3.3K OHM 1/4W
1	51 OHM 1/2W
1	330 OHM 1/4W
2	470 OHM 1/4W
1	5K PC MOUNT MINI POT
1	5K 10 TURN PANEL MOUNT POT
1	5K AUDIO TAPER PANEL MOUNT POT
1	78L05 REGULATOR
3	78L08 REGULATOR
2	LM386
5	NE602AN (NE612'S SUBSTITUTED)
1	MAR-3
1	1N4001 DIODE
1	MV209 30PF VARICAP DIODE
1	DPDT 12V RELAY
1	T50-2
2	FT37-2 (24 AWG WIRE USED WITH ALL TOROIDS)
1	T37-43
2	10.7 MHZ IF-GREEN CORE
3	3-30MHZ RFC
5	5.185MHZ XTAL 32PF
1	MPF102
1	2N2222A
1	2N3866
1	MTP3055E WITH HEATSINK
1	FERRITE BEAD

The board (from FAR) is roomy. Can't wait for May!

72, Ralph N7RI
Charlottesville VA

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Karl Heimbach <heimbach@concentric.net>
Subject: [17925] Chirp in 38 Special
Message-ID: <335B9A70.2DDC@concentric.net>

Hello gang,

I received my kit last Friday and had it up and going in standard form by Saturday afternoon. After making one QSO at about 400mw, I installed the RIT and the updated 5W mod without difficulty. Sunday afternoon, I completed the 5W/variable output mod.

Unfortunately, in all instances and in all permutations of this exercise, I have had consistent chirping. I get a clean sinewave on the carrier and a pure tone (all the way from 400 mw to 8 watts), but chirping as the transmit section is keyed off and on.

The chirp is not influenced by the power supply; it is no better or worse with a battery or a 120VAC/13.6 DC supply.

Has anyone had similar problems or have an idea of what I may have done wrong?

Thanks,

Karl - W5QJ

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Pete Meier -- WK8S <pmeier@tir.com>
Subject: [17922] Dayton QRP Banquet Tickets Last Call!
Message-ID: <199704211549.LAA14394@tir.com>

Time is running out to get your \$15 dollar checks (w/SASE) to me for you reservation for the event of the year... The 1997 Dayton QRP and Awards Banquet sponsored by the ARCI (Amateur Radio Club International) as a part of FDIIM (Four Days in May).

Martin F. Jue (Mr. MFJ) will be the special guest speaker this year following a spectacular buffet of Roast Beef (carved at the buffet), Baked Spring Chicken, or Baked Italian Lasagna and much more. There will also be special presentations of QRP awards and lots of door prizes to be handed out too.

If you don't want to miss this be sure to get that check (and SASE please) sent NOW to:

Pete Meier WK8S
4181 Rural
Waterford, MI 48329

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [17927] DAYTON QRP vendor list.
Message-ID: <Pine.GS0.3.95.970421124450.16858A-1000000@autarch.acsu.buffalo.edu>

I will be taking a list of the qrp vendors and hams who will have flea market spaces at Dayton. I will compile a list and post it here the week before Dayton. This list may be of use to hams that won't attend...they can use it as a shopping list.

I will be using the categories listed in the ARRL handbook under Component data /ARRL Parts supplier list.

- A- General Suppliers
- B-Inductor Cores
- C-Circuit Board etching supplies
- D-RF Power transistors
- E-Microwave components
- F-Antenna Hardware
- G-Dials and Knobs
- H-Variable capacitors
- I-Transformers
- J-IF filters
- K-Project Cases
- L-Project Kits
- M-Surplus Parts
- N-Vacuum Tubes
- O-Mechanical Teletype Supplies
- P-Integrated Circuits
- Q-Equipment Manuals
- R-Test Equipment
- S-ATV supplies

T-Etched Circuit Boards
U-Wire
V-Crystals
W-Climbing and Safety Equipment
X-Special QRPL discounts
Y-Free Beer
Z-None of the Above/Psychiatric help

Please use only the above codes, no extra verbiage in the following
format.address to me titled "AD DAYTON" using the format below.
(do not send this message back to me :-)

BUSINESS NAME/or NAME and CALLSIGN (one please)
SPACE(S) #/LOCATION
ITEM(S) CODES (letter code only)
EMAIL address (one please)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: G0BPS@emarkt.com
Subject: [17903] Dayton. CU there
Message-ID: <160497150831000C.G0BPS@emarkt.com>

Hi gang,

A change of plans now allow me to be at Dayton this year. Looking forward to
seeing you all agn.

TTFN de ..

Dick Pascoe G0BPS

--

Dick G0BPS / G0R00 / M1ABJ
Packet via GB7RMS
Email: Dick@kanga.demon.co.uk
or: G0BPS@emarkt.com
<http://www.kanga.demon.co.uk>
Ham Radio Today QRP columnist

Kanga Products
Seaview House,
Crete Road East
Folkestone
CT18 7EG
PW antenna workshop too.

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: PDouglas12@aol.com
Subject: [17892] DAYTON: Badge FAQ
Message-ID: <970420214349_-65647490@emout11.mail.aol.com>

Ladies and Gents:

As in past years, I will be making convention badges for the online QRP bunch for the 1997 Dayton Hamvention (c). Please keep in mind that these are for delivery at Dayton only, not for mailing, and not for "outsiders", meaning that I ask that you request your own badge, but please don't ask me to make one for your friend who is not online. As it is, I will be doing about 150-200 badges this year. Obvious exceptions: Spouses, and immediate family members. Do request a badge for family members who will be with you.

The badges will have QRP ARCI and FDIM in the heading (All-in-one this year.) Vendors will have a line with the name of their company, and FDIM Speakers will be identified as well (on a separate line shoe-horned in).

After struggling for two days, I haven't been able to fit the QRP-L logo--so I reluctantly concluded it had to go so I could fit all the other data.

HOW TO GET A BADGE: Email me at pdouglas12@aol.com, with your name and call. That's it. Badges are free. GANG PLEASE DON'T SEND ME BACK A COPY OF THIS FAQ. I KNOW WHAT IT SAYS. JUST THE REPLY PLEASE. IN OTHER WORDS, PLEASE LEARN TO USE YOUR REPLY BUTTON PROPERLY.

FDIM ATTENDEES, AND FDIM SPEAKERS, AND FDIM VENDORS DO NOT NEED TO REQUEST A BADGE. I ALREADY HAVE YOUR INFO. NO NEED TO SEND A REQUEST.

Once a week, I will post a "printout" of my badge database thus far, so you can check your info for accuracy--there are always a few errors in the early rounds as these have to be hand entered the first time they go into the database. My program puts new entries on the bottom of the otherwise alphabetical list, so if you have just requested a badge, check there if your name isn't in the normal place in the list.

WHERE CAN I GET MY BADGE AT DAYTON? First, they will be available at the

Thursday FDIM seminar at check-in. Later on, they will probably be at the QRP booths in the Hamvention convention hall. In past years the G-QRP gang has graciously allowed pick-up at their booth, and again this year, the badges will be there during convention hours. In the eves, we will try to bring back the leftovers to the Days Inn South for pick up at the banquet and evening programs.

That's it. I have posted the latest version of the database simultaneously herewith. Get psyched, it is coming.
Still sitting on your tail thinking, "gee maybe I will go someday"? Move it.
This is the year.

72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: PDouglas12@aol.com
Subject: [17891] DAYTON: Badge list as of 4/20/97
Message-ID: <970420214345_-99174382@emout08.mail.aol.com>

de Preston WJ2V:

See FAQ posted simultaneously for info on how to get a badge.
Folks, please check your name entry for accuracy. This list is complete as of 4/20/97:

ADAMS	CHUCK	K5FO	FDIM SPEAKER
ALBERT	TED	KF8EE	
BACHMANN	RICHARD	N3SLR	
BEEDLOW	PETER	NN9K	
BENSON	DAVE	NN1G	FDIM SPEAKER SMALL WONDER LABS
BERTUZZO	SERGE	VA3SB	
BLANCHARD	DENNIS	K1YPP	JADE PRODUCTS, INC.
BLANCHARD	JANE	KA1FUN	JADE PRODUCTS, INC
BORNSTEIN	STEVE	K8IDN	
BOWMAN	BOB	AA5VS	
BRAUN	SCOTT	KB2GWF	EMBEDDED RESEARCH
BROWN	DAVE	K8AX	

BURDICK WAYNE N6KR WILDERNESS RADIO

BUTLER RALPH K6ZAN

BUTLER RAY WA4KEJ

CARR MIKE WA1QAA

CARTWRIGHT DON N2NNF EMBEDDED RESEARCH

CARVER BILL W7AAZ FDIM SPEAKER

CATES JIM WA6GER NORCAL 38 SPECIAL

CAVCEY KEN W0YOR

COPELAND DAN KF0OV

CORBIN LOWELL W8IQB

CORBIN ROBIN NI9R

CUMMING JOHN VE3JC

DIANA GARY N2JGU EMBEDDED RESEARCH

DOBBS REV GEORGE G3RJV FDIM SPEAKER

DOLSON BILL K8DDV

DOLSON JIM WB8ZBD

DOUGLAS PRESTON WJ2V FDIM VENDOR CHAIR FDIM SPEAKER

DOYLE DON AC5II

DOYLE ROBERT

DOYLE RON N8VAR

DURBIN KEN K8CQ0

DYER BOB KD6VIO WILDERNESS RADIO

EILERS MICHAEL AC4XS

EVANS JOHN N3Q00

EVANS KEN W4DU

EVANS PATTY N3TOK

EVERHART JOE N2CX FDIM SPEAKER

FIELDS TOM WB9VTY

FIRLIK DON K8AQZ

FIRTH GRAHAM G3MFJ

FISHPOOL TONY G4WIF

FITTON JIM W1FMR

FOLLETT BOB AB7ST FDIM REGISTRATION CHAIR

FOOTE JOHN KR4GL

FRISZ TOM N9DD

GAFFNEY BERNARD N8PVZ

GOBRICK BOB N0EB FDIM SPEAKER FDIM PUBLICITY CHAIR

GOEMANS PAUL WA9PWP

GRAHAM KEN K5ID

GREER DEBBIE

GREER JEFFREY WD4ET
HARTLEY CHARLES KM3V
HENDRICKS DOUG KI6DS NORCAL 38 SPECIAL

HENSHAW JERRY KR5L
HENSHAW JERRY KR5L
HERON GEORGE N2APB FDIM SPEAKER

HIDEG STEVE N8HSC
HIMES MARTY WB8FNH
HINTZ GUS W2ZHA
HOLLER DAVID N1RGN
JIVOIN GREGORY WD8JTN
JOHNEY GARY N3BYN
JOHNSON HAROLD W4ZCB
JONES ALLEN W9DZ
JUCH FRED N5JXO
KARTY STEVEN N5SK
KELLNER RICH W5RXP
KELLOGG BOB AE4IC
KELLOGG ELLEN A1XYL
KELSEY BILL N8ET KANGA US
KOHL HANK K8DD
LIFLAND TOM W2RFU
LUDINSKY CHUCK K1CL
LYNCH MARTIN KA1LXG
MANUEL ED N5EM
MASSENA FRED KG8OK
MATHESON HUGH K0QD
MEIER PETE WK8S FDIM/ARCI BANQUET CHAIR

MIDKIFF MONTE N7TAU
MITCHELL BRAD WB8YGG
MITCHELL BRAD WB8YGG EMBEDDED RESEARCH

MOIZEAU CHARLES W2SH
MORIARITY JOHN K6QQ
MOYLE AL N3KFL
MUSCOLINO BRUCE W6TOY/3 FDIM SPEAKERS CHAIR FDIM SPEAKER

OWEN JAMES K4CGY
PASSIONE VINCE WA2ECP
PERRY DIKKIE XYL
PERRY MIKE PA3ASC FDIM SPEAKER
POLING PAUL N8CKG
POWERS DAVID KB8RVS
PUCKETT DAN WD8AAU
REA AL W8LRM

REED JACK WA7LNU
REED WAYNE K9NE
REES CHRIS G3TUX QRP COMPONENT CO

REID GLEN K5HGB
ROBERTS KEN VE3BGW
ROSENFELD SCOTT NF3I
SCHILL BOB N9ZZ
SCOTT JAMES W9KV
SHEARER SAM WB5ZJN
SHILHANEK TERENCE W0PFR
SIMON ED K04CO
SPECHT PHILIP K4PQC
STAFFORD JIM W4QO
STARK RON KU7Y QRP QUARTERLY EDITOR

STEWART DOUG N2BEG EMBEDDED RESEARCH

STICHWEH DAVID N8GKQ
SWITZER BUCK N8CQA
SZAKONYI DICK KA3ZOW S & S ENGINEERING

SZAKONYI KATHY N3SAD S & S ENGINEERING

TANTON ED N4XY
TODD RON K4WZ
TODD RON K4WZ
TOUTH LEN W8VQ
TRACY DAN KC9RH
WIDMAYER GARY N8AYY
WINDISH WALD KB2JE
WINKLER DAN N7IVR
WOHLSCHLAG DICK WA9FLX
WOHLSCHLAG MARGE XYL
YOUNCE JIM K4ZM
YOUNG NILS WB8IJN
YOUNG PAUL KC2AHB
YOUNG TERRY K4KJP
GINGELL DANNY K3TKS
CZUHAJEWSKI MIKE WA8MCQ
JOHNSTON RAY WA2YGY
PARFITT DALE W4OP
WHITEHEAD ELLIS AA8SR
MIKUCKIS JOE K3CHP
TANKERSLEY JOHN WD9EFN
LEWALLEN ROY W7EL
STEYAERT ROGER K7RXV
QUICK PAULETTE WB9VHF

MORIARITY JOHN K6QQ
ANTCZAK ERNIE NC8N
FINCH BOB W9YA
ARNETT STAN AC8W
SKALSKI JIM N2GO
SMITH WAYNE K8FF

PS,

I see I left off Dick Pascoe--don't worry, Dick I gotcha'

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: PDouglas12@aol.com
Subject: [17890] DAYTON: Vendor list for FDIM
Message-ID: <970420214352_1851866320@emout14.mail.aol.com>

Gang, please note this is a database dump from my placemat list of vendors who have been kind enough to send me an acceptance to the FDIM Vendor night program I sent them. These companies will be at the vendor night (plus Steve Hideg photos--I didn't forget you Steve) to show the latest in their QRP goodies--this is Friday night, May 16th at 9:30pm (following the banquet) in the QRP hospitality room. All are welcome, no tickets needed!

EMBEDDED RESEARCH BRAD WB8YGG & GARY N2JGU ATOMIC KEYSER & TICK (TINY CMOS KEYSER) PO BOX 92492 ROCHESTER, NY 14692
EMTECH BOB KELLOGG AE4IC NW TRANSCEIVERS AND ANTENNA HARDWARE
3641A PREBLE
ST BREMERTON, WA 98312
JADE PRODUCTS INC. DENNIS (K1YPP) AND JANE (KA1FUN) BLANCHARD
BATTERY
CONTROLLERS, CURTIS KEYSER, COMPONENTS BOX 368 E. HANPSTEAD, NH 03826-0368
JOE EVERHART N2CX NJQRP RAINBOW TUNERS, N2CX GUSHER-II
ANTENNAS JEVERHART@CAYMAN.VF.MMC.COM N2CX@VOICENET.COM
KANGA PRODUCTS (UK) DICK PASCOE G0BPS KITS, SIMPLE TX, RX,
TRANSCEIVERS SEAVIEW HOUSE, CRETE RD. EAST FOLKESTONE, KENT. CT18 7EG.UK
KANGA US BILL KELSEY KITS & COMPONENTS FROM HANDS, KK7B AND MORE
3521
SPRING LAKE DRIVE FINDLAY, OH 45840
NORCAL DOUG HENDRICKS (KI6DS) & JIM CATES WA6GER 38S AND 48S XCVR CLUB
KITS 3241 EASTWOOD RD. SACRAMENTO, CA 95821
QRP COMPONENT CO. CHRIS REES G3TUX KITS, KEYS AND QRP
G3TUX@COMPUSERVE.COM
S & S ENGINEERING DICK (KA3ZOW) AND KATHY (N3SAD) SZAKONYI
TRANSCEIVERS,
KITS, ARC4 & TAC1 14102 BROWN ROAD SMITHSBURG, MD 21783
SMALL WONDER LABS DAVE BENSON NN1G SW, GM, AND WHITE MOUNTAIN XCVR KITS

80 E
ROBBINS AVE NEWINGTON, CT 06111
WILDERNESS RADIO WAYNE BURDICK N6KR & BOB DYER KD6VIO
SIERRA, 40A, SST
XCVRS, & KC1 & KC2 READOUTS PO BOX 734 LOS ALTOS, CA 94023-0734

See all at Dayton, I hope!

72,

Preston WJ2V (Vendor Chair for FDIIM)

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: G3XUH@aol.com
Subject: [17912] Fluke 8010A (c 1978)
Message-ID: <970421094425_1355252933@emout16.mail.aol.com>

Help.

I Have a Fluke Multimeter Model 8010A Made in 1978. I require a New
LCD
Display made by Crystaloid SF344 H1 6912D or Fluke Stock No 453100 I dont
seem to be able to get one in the UK can anyone point me in the right
direction
at a reasonable price.

73s Ray G3XUH

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Joe Everhart <n2cx@voicenet.com>
Subject: [17883] FS Gusher-II QRP Antennas
Message-ID: <199704210023.UAA22539@mail3.voicenet.com>

Group,

Pardon the bandwidth, but...

Here's an opportunity just in time for QRP To The Field! I've been
offering portable QRP Gusher-II dipoles since the Fall and have sold lots
of them. I am about to change the design (and unfortunately increase the
price). I will announce availability of the new ones shortly.

Meanwhile I have a couple left at the old price. I will make them
available at \$20.00 to the first couple of folks who e-mail me! Delivery is by
Priority mail and is included at that price.

The Gusher-II is a one-pound dipole for 40 meters and up. It comes complete with a weather sealed center insulator, 30 feet of RG-122U coax and a BNC all installed. Removable wire elements can be cut for 40 thru 10 meters and a 10+ page manual gives complete info on single and multi-band configurations.

Details in October 1996 72 newsletter and December 1996 Worldradio QRP column.

Contact me at

n2cx@voicenet.com

for more info.

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Paul Erickson <paul1@wizard.ucs.sfu.ca>

Subject: [17880] FS/FT ts830 remote vfo cable

Message-ID: <9704202321.AA20392@wizard.ucs.sfu.ca>

I ended up with a spare cable for the ts830 remote digital vfo. Does anyone know someone who needs one?

I think it cost me \$25, but would trade it for a couple of tick keyer chips.

cheers, Paul

ve7cqk
email: paul1@wizard.ucs.sfu.ca

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "N4ELM" <n4elm@ipass.net>
Subject: [17893] FS: HW-9 and accesories
Message-ID: <199704210200.WAA09888@passport.ipass.net>

For Sale:

Ten-Tec HW-9 HF CW transceiver

with WARC kit.
in good condition, some scratches on the case tops,
not mint but everything seems to work.
all original, no mods.

Includes HM-9 wattmeter, HFT-9 tuner, PSA-9 AC power supply, and original
manuals and schematics.

\$375.00 + shipping OBO or trade towards Wilderness Sierra + accessories.

73 - Dave, N4ELM.

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: N5JI@aol.com
Subject: [17887] FS:FT-757GXII
Message-ID: <970420210233_-1668930597@emout20.mail.aol.com>

hi gang

I have for sale a yaesu ft-757gxii . with hand mic, 600 hz cw filter,
built in keyer with speed control. Have it set up so with the drive
control fully clockwise it runs 5 watts. Drawing from yaesu showing
location of two power pots. Radio has a few scratches but in good condition,
electrically it's 100 %. Purchased from Burghardt in N.D. recently. Have all
receipts
and manual. (copy of original).

i'll ship it to your porch for \$625.

dick arci #8826 qrp-1 #1054

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bernie Doehner <bad@uhf.wireless.net>
Subject: [17906] helium balloons as portable antenna supports.
Message-ID: <Pine.BSF.3.95.970421085536.22295A-100000@uhf.wdc.net>

Hi:

Just wondering - has anyone on this list ever played with helium filled party balloons as a portable antenna support?

I had this crazy idea, that when driving to a nearby mountain top, I could easily support a thin long wire from a party balloon and tune it against the body of my car.

But in order to pull this off, I have to find a cheap source for small Helium bottles (or other way to make a gas that's lighter than air and not flammable).

I have even experimented with H2O electrolysis, but without an H2 pump I can't get enough pressure into the balloon (and you can't use a conventional pump because of the danger of combustion should a spark and Oxygen reach the H2).

73

Bernie nu1s

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: HIMES@idic11.idi.oclc.org
Subject: [17914] HELIUM_&_ELECTROLYSIS
Message-ID: <01IHY0ZGTV2AAR4HYR@idic11.idi.oclc.org>

I have experimented with helium-filled party balloons, but never while

undergoing H2O electrolysis....have to give that a try soon!

>Just wondering - has anyone on this list ever played with helium filled
>party balloons as a portable antenna support?
>
>I had this crazy idea, that when driving to a nearby mountain top, I could
>easily support a thin long wire from a party balloon and tune it against
>the body of my car.
>
>But in order to pull this off, I have to find a cheap source for small
>Helium bottles (or other way to make a gas that's lighter than air and not
>flammable).
>
>I have even experimented with H2O electrolysis, but without an H2 pump I
>can't get enough pressure into the balloon (and you can't use a
>conventional pump because of the danger of combustion should a spark and
>Oxygen reach the H2).
>
>
>73
>
>Bernie nu1s

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: torell@sicom.com (Kent Torell)
Subject: [17942] HF Spread Spectrum
Message-ID: <v02130500af816a493df3@[192.91.202.41]>

Here are some observations on the applicability of direct sequence spread spectrum to HF. This is based on 3 years of operation with a spread-spectrum HF radio I helped design. This radio (Viper) nominally operated with a data rate of 56 kbps, and a spreading bandwidth of 1.5 Mhz. Most of our operations were around 4.5 and 6.2 Mhz center frequency.

1. Power required. Spread-spectrum doesn't reduce the power required to communicate. It takes the same amount of energy per bit to get it there. If you send a lot of data quickly, it takes a lot of power. Direct sequence spread spectrum smears that energy out over a much wider bandwidth...the power density is lowered, but you *definitely* affect more channels.

2. Near-far problem. This is the achilles heel of direct sequence spread

spectrum. As an example, two different people are trying to operate on the same frequency, using different spreading codes. Due to many factors (imperfect codes, multipath, filtering, timing, hardware imperfections, etc.) the operators will be interfering with each other. If you are trying to communicate to a far station, you need power...and as a result you will raise the interference to the other user close to you, so he cannot hear his desired station. So they raise their power, and interfere with you, etc. Power managements helps a little, but that scheme works best (still only marginally) in a cellular environment. When the skip is in, HF has cells that are essentially global!

3. Interference. Receiving wide-band on HF requires the ability to operate with narrowband interference (tty stations, for example) that have a *lot* of power relative to your signal. We handle that problem with high dynamic range signal processing, essentially notching out the narrowband signals. This is very expensive, and is technology driven. A/D converters aren't up to the full task yet. Signals we are used to copying qrp are 100 db below out-of-band interferers. Our radio (when carefully adjusted) can cope with only 60 db.

4...(lots of other hair-raising stuff...)

N. Interference to other users. That is the worst problem, and is preventing the deployment of this technology...the HF spectrum is over-subscribed by users world wide. Operation of broad-band HF definitely affects these users, particularly receivers that are close (ground wave) to you. Ground wave on the ocean is 100's of miles. We could get temporary authority to operate, but only on non-interference basis. For example, our transmitter caused some grief to a 40 meter net control station a few miles away during one test. We worked out an operating schedule for a week. Permanent allocations? No way...and this was government, special ops kind of stuff.

Think of your normal operations on the weekend...the 'ol dx hound across town is putting out a strong signal into your receiver, but if you tune far enough away, its tolerable. Now, imagine him dropping his signal strength by 100 (20 db), but simultaneously being in 100 'channels' (100 hz * 100 = 10 khz). You certainly couldn't receive anything.

Sorry for the brief and hurried nature of this note, but work calls...

Kent Torell torell@sicom.com 602-607-4852
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB7OA scQRPion 6,qrp-1 57,ARCI 9075 DM33xn 33.55 N 112.078 W

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: pmeier <pmeier@tir.com>
Subject: [17889] Items FS (long) most SOLD
Message-ID: <199704210115.VAA08879@tir.com>

Sorry all but the TS 50 are sold.

St. Louis Tuner - SOLD
Outbacker SOLD
Wilderness Sierra SOLD

Kenwood TS-50 HF Transceiver for sale.
In EXCELLENT shape both working and cosmetically. Has brand new front
face plate. Covers 10-160 Meters FM/AM/SSB/CW plus general coverage
receiver. Power is 100 watts with 3 levels of adjustment.
Manual, mobile bracket and origianl box included.

Price is \$720 WHICH INCLUDES shipping, insurance and C.O.D.

Email if seriously interested to pmeier@tir.com

Pete WK8S

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Kr0i1@aol.com
Subject: [17901] Looking for TenTec QRP Rig
Message-ID: <970421041236_-1233509435@emout10.mail.aol.com>

Re: my note dated 04/17 23:18 EDT

I have concluded a trade for the Kenwood 850S. Thanks
to everyone who responded to my original note. Still
looking for TenTec QRP rigs in original condition and
excellent cosmetic condition. Only thing left to trade
is an Ameritron 811H 800 watt amp which shouldn't be
of much interest to anyone on this list...hi.

72 es 73 de Mac QRP ARCI 3227 QRP-L 1037
WIMPS : Qs=005 30M=5 17M=0 12M=0 States=04/00/00

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Scott Bauer <ke3nv@erols.com>
Subject: [17932] MRX-40 rcvr kits
Message-ID: <199704211823.0AA20227@smtp3.erols.com>

Hi Group,

My MRX-40 receiver kits have made the trip to Maryland!!
Looks like they are going to be fun, easy to build kits.
The manual looks very good and all of the parts seem to be
in the package. If there were only a Xmitter to go with it....

Thanks for the quick service Len!!

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV
Fists 1502 QRP Nut SWL Truck Pilot ARRL
Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40
S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80. Emtech NW-8030
49er 38 special at 300mw
visit my web page at <http://www.erols.com/ke3nv/>

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: ji3m@maxwell.com (James R. Duffey)
Subject: [17915] Non Corrosive RTV Availability
Message-ID: <v02130500af8121db39f5@[192.31.66.229]>

Ed - Nice post on RTV and the chemistry of how it corrodes things. RTV is
one of those topics, like AGC and the G5RV, that recur regularly on the
list.

I believe that another source of noncorrosive RTV is the sealer they use
for Aquarium joints. This is usually available at tropical fish shops. It
is less expensive than the noncorrosive RTV sold for electronic purposes,
but is essentially identical.

One cannot emphasize enough that RTV cures by drawing moisture from the
air. If you live in a dry climate and try to seal something hermetic, that
is air and moisture tight, the internal surfaces of the RTV may never
harden. This is because there is a lack of moisture after it is sealed. I
have seen this happen when one of our Techs at Hughes tried sealing leaks
in a dry box with the stuff. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: duane <duane@flinet.com>
Subject: [17897] portable antenna mast cheap and easy (long)
Message-ID: <01BC4DE2.6A221F20@pm10-3.flinet.com>

For a portable Antenna Mast I buy 1 -10 foot sections of
3/4" PVC, and 1- 10 foot sections of 1" PVC , 2- 3/4" to 1" couplings. =
And
one 10 foot section of 1"1/4 . I cut the 3/4 and the 1" sections in =
half
Now I put the couplings on the 1" PVC glued on.
I then insert the 3/4 section inside the couplings to make a 10 foot =
mast.
DO Not GLUE THE 3/4 SECTION TO THE COUPLINGS . I do the
Same thing with the remaining 5 foot long pieces . So I end up with two =
10 foot mast.
The 10 foot long 1" 1/4 is used as a center mast. I put a T at the end =
of the 1" 1/4=20
And cutout the top of the T to allow my Antenna insulator to lay flat =
inside of the T.
I then place hook at the top of my end masts and put insulators made =
from milk
Jugs on the end of the dipole wires I then clip the end insulators onto =
the hooks
Drive a stake in the ground place the end mast sections over the stakes. =
I drive a stake down
For my center mast (the 1" 1/4 section) put the egg insulator inside =
the cutout T-joint and=20
Push it up. I can move the section around to form a v or straight =
dipole. When I cut the dipole
I do it with the antenna up so I can get the best swr match, it will =
always be the same height
Above the ground note however if you move the antenna from a horizontal =
dipole to a V
Shape the swr will change. This antenna mast can be small by cutting the =
section to what
Ever length you want and buying the couplings to join them together. =
Mine will fit in a large
Gym bag and the mast cost approx 15.00 to make and weights very little. =

My dipole is made with very small wire approx 20 gauge and the feed line =
is mini 8 coax.
You could make some more end mast to extend a long dipole by putting =

T-sections on them allowing the wire to be supported. If you would like =
I could draw a picture of this setup it really
Is simple takes longer to describe then to build.

duane@flinet.com - mail address
<http://www.flinet.com/~duane> My WWW Homepage
<http://www.flinet.com/~duane/ham/ham.html> My WWW Ham Radio Page
ab4be@amsat.org second mail address
Qrp-L # 710

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: nf0r@slacc.com
Subject: [17885] Portable Antenna Masts (Part 1 of 2)
Message-ID: <9704201926.D6750CQ@slacc.com>

Dear OM/YL,

Recent inquiries on the QRP-L about portable antenna masts prompts this posting. I have a couple of favorites:

1. The South Bend SD-20 (or Black Widow brand equivalent) collapsible fiberglass fishing pole in the 20' length is usable with a center-fed inverted vee. A 51' span is about the maximum manageable size (a half-size G5RV for 10-40M) assuming the antenna is fairly lightweight. I use small diameter stranded teflon coated hook-up wire, a heavy nylon guitar pick for the center insulator, shirt collar buttons for the end insulators and braided nylon fishing line for the support lines. The doublet weighs just a few ounces and offers very little sail area for the wind. The feedline can be light duty Radio Shack 15-004 twinlead or even #24 zipcord. I have experimented with mon0-band dipoles using RG-174 but multi-band center-fed antennas are better suited to my operating preferences.

The fishing pole bends over at the tip under load but it is very strong so this really isn't a problem. For the faint of heart the feedline can be taped to the mast. The base mount for the pole is a simple wooden dowel and spike assembly. Browse the original "St. Louis Vertical" article now posted on the NorCal webpage for those specifics.

Collapsed this antenna support is just 47" long and weighs almost nothing. You can't do much better for a \$25 bill!

de Dave, NF0R nf0r@slacc.com

(continued in Part 2 of 2)

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: nf0r@slacc.com

Subject: [17884] Portable Antenna Masts (Part 2 of 2)

Message-ID: <9704201942.D3874LZ@slacc.com>

Before the "St. Louis Vertical" concept evolved my favorite field antenna or wire antenna support for over a decade had been the "Portable Random Wire Vertical". This is described in detail in the January 1995 issue of QQ. The design uses graduated aluminum antenna tubing (largest 1.25" dia.) available from Texas Towers and other vendors. Plan on investing up to \$75 in tubing, shipping and related hardware items.

The RWV is free standing and uses only one set of guys at the 6' level. It is designed to be erected by one person. After a little practice this amounts to an honest five to seven minutes. In the simplest form the radiator is extended to 33.5' It is therefore a quarter-wave on 40M, a half-wave on 20M or can be set to any convenient length required for a match over 10-40M.

As a general rule I use a tuner and center feed with twinax. This makes life in the field real easy but the RWV can also be coax fed and optimized for a single band. For a ground system try three or more folded radials as described in the original SLV article or W6MMA's mod which employs rotor cable.

While not discussed in the QQ article, I routinely run the RWV at 42.5' (a 5/8 wave on 20M) using the basic mechanical configuration. If your in a hurry the same article describes how to feed the radiator as a vertical random wire.

For overall operating convenience the SLV always gets the nod. But for sheer performance potential (lots of vertically polarized aluminum high in the sky) the RWV remains my antenna of choice.

The St. Louis QRP Society has used the RWV's tubing as an antenna support for Field Day. With two extra guy sets it easily holds a lightweight 80M doublet at 45'. The basic RWV nest to a little more than 6'. It will thread between front car seats or fit comfortably in the bottom of a canoe. The radiator weighs six pounds plus a couple more pounds for the outboard hardware. A few folks on the QRP-List have

already built and/or used an RWV including WU7F, W6EMT, W3RDF, KE0MC, N0OCT, AG5P and WN9V.

I hope this information helps others enjoy QRP in the great outdoors just a little bit more. Finally, there is absolutely no reason why the RWV can't be installed in backyards or used on rooftops too. My prototype RWV is attached to N0EVQ's chimney and I have given up any hope of every getting it back! <grin>

Best regards,

de Dave, NF0R nf0r@slacc.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Pete Meier -- WK8S <pmeier@tir.com>
Subject: [17918] QRP Club Editors/Presidents
Message-ID: <199704211530.LAA10378@tir.com>

Club newsletters are one of the most popular aspects of QRP Clubs. Recognizing this fact I would like to invite any club who wishes to bring attention to their club to do so by donating a subscription to be awarded as a door prize at the Dayton FDIQ QRP Banquet. I know it is one of very popular prizes I have given out in the past. If you are interested please email me and also send (ASAP) your clubs name and logo so I can have a poster made up to display in the QRP banquet hall for all to see.

Thanks for your interest,

Pete Meier WK8S
4181 Rural
Waterford, MI 48329
email: pmeier@tir.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: ALK0FRP@aol.com
Subject: [17954] QRP from KH6
Message-ID: <970421182327_707845473@emout05.mail.aol.com>

Did anyone hear KH6B QRP from HI ???

Listened on and off this weekend between evaporative cooler repair, tool and part runs. No JOY. heard a portable at 7am MDST working aVK2 this morning

but he was QRO. Need QRP -QRP KH6. ????

Jim NOUR who looks like WA0RPI did a great job on ND even in a flood, maybe he can try KH6. How are the roads this time of year to Honolulu. (flooded again).

Al K0FRP

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "James R. Johns" <jrjohns@mitre.org>
Subject: [17919] QRP New England
Message-ID: <3.0.1.32.19970421113743.0072c51c@mail91.mitre.org>

I just realized that I hadn't renewed my QRP New England membership. Can someone on the list provide me with the name and address of the treasurer of QRPNE? Also, what is the current dues payment? With all the various QRP clubs, multi-year memberships would sure help reduce my anxiety level (Every two or three years instead of every year). Thanks in advance.

Jim Johns
jrjohns@mitre.org

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [17938] QRP rigs for sale
Message-ID: <01IHYY2FQ9TK8WWWN1@tntech.edu>

For Sale:

Built and tested-

(1) Norcal N38S (*see <http://www.fix.net/~jparker/38spcl.htm> for details of specifications)

in 4.5"W x 6.5" deep x 2.25" high painted blue case with built in speaker. Has 5 watt and Tick keyer mods, the RF control is also on/off switch.

\$65 shipped us (think this is what it cost me with all mod parts, connectors, case and speaker.. maybe cost me a little more one way or other)

(2) NW8020- 20 meter (*see

<http://www.isomedia.com/homes/starbuck/emtech.htm>
for details of rig.

this one was built from Dan's kit, with optional audio filter and RIT. it is in nice unpainted aluminum case that is 7" w x 5.5" deep x 2.5" high. it has a pretty good size built in speaker and has on/off switch built into audio control

puts out a solid 5 watts and works real well on DX. The audio filter does a great job on knocking out atmospheric noise and really narrows down width.

\$80 shipped us

72
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "N4ELM" <n4elm@ipass.net>
Subject: [17894] QRP++ notes and comments (long)
Message-ID: <199704210200.WAA09897@passport.ipass.net>

After using the new QRP++ and Companion tuner since February, here are some notes and mods. I have been using the QRP++ and Companion mostly from hotel rooms on business trips. Antenna setups have been fair to miserable.

When receiving CW with the bandwidth set tighter than about 1.4 Khz, strong adjacent signals in the IF passband swamp out the desired signal. It sounds like a extremely strong, noisy CW signal. Setting the SCAF filter to 2.4 Khz position helps but then you have minimum selectivity. I tried the RF gain mod suggested by Bruce. It helps some, but not much.

The SSB transmit audio is excellent. I've gotten very good reports on the audio even on 75 Meters. My mike is a generic electret mounted in a surplus enclosure.

I attached a switch to a small cable with a plug into the key jack to use as a "tune" button.

The noise bridge in the Companion takes getting used to but it appears to work well.

The tuner circuit has worked on both twinlead and coax type feeds. I've used small resonant loops, a 60 ft., 30 ga. wire, and a coax fed, 20 meter dipole. I also use 2 - 16 ft. or 1 - 33 ft. radial on the tuner ground lug.

The Companion has no ON/OFF switch or fuse between the battery, the noise

bridge and the radio cable. Once after being stored for a couple of weeks without charging, the battery died while I was trying to check into a net. The noise bridge had drained down the battery. The cable to the radio, being hot all the time, also arced on the radio connector while trying to plug it in.

After this happened several times, I decided to do a field modification to the Companion. I added an Airpax 4.0 amp circuit breaker between the battery and the noise bridge and radio power cable. I got this breaker at a hamfest but Ten-Tec has used this same type of breaker on their HF rigs. It mounts in a 5/8" hole and looks like a toggle switch on the outside. I opened up the tuner case, unsoldered, and removed the cable for the wall cube charger from the power supply board. I mounted a coaxial socket (Radio Shack) on the upper right rear of the tuner (to the right of the GND binding post) and wired it to the power supply board. A coaxial plug (Radio Shack) attached to the end of the cable completed the new wiring for the wall cube charger. I removed the strain relief grommet from the original hole for the charger cable, enlarged it to 5/8", and mounted the circuit breaker. The circuit breaker is an exact fit for the available space so go carefully if you try to duplicate this. From the rear, on the left side of the tuner the circuit breaker is at the bottom, next up is the cable for the radio, then the two SO-239s for the tuner. It is not shown in the schematic but the power supply board has a blocking diode on it to prevent discharging the battery. (Unplug the battery connector first) I removed the noise bridge and the radio cable positive leads from the power supply positive terminal post and attached them to the "load" terminal of the breaker. I ran a new wire from the other breaker terminal back up to the power supply positive terminal post to complete the circuit. Now the circuit breaker provides protection and switching for the noise bridge and radio power. The battery can be charged whether the breaker is on or off by plugging in the charger cable. I may also be able to use the new charger connection to supply power from a solar panel to charge the battery.

I'm working on some kind of padded box to put all the radio stuff in that will survive air travel.

So far, in the airport security lines I've had to unpack the radio gear to get down to the laptop PC to turn it on but no one has even commented on the radio, tuner, keyer, wires, and other stuff.

73 - Dave, N4ELM.

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bob Kellogg <ae4ic@nr.infi.net>

Subject: [17939] QRPin' Fool
Message-ID: <199704211955.PAA07842@mh004.infi.net>

Well, here's the deal. When I got my ticket a couple of years ago, I started working on WAS. Then after a few months, became a convert to QRP and started again for WAS QRP. Then, after a few months decided it would be more fun to get WAS 2-way QRP.

Now, I'm working on WAS 2-way QRP by bands.

So, I never have finished WAS. - But, been looking at my records and filling out forms. Guess What? I have WAS, all except Hawaii. (assuming I get confirmation from Jim, N0UR, for ND) And, have most of the "tough" states, like Alaska, 2-way QRP.

I'm telling you this for two reasons. (1) So the newbies will see what can be done with simple antennas. (I have two, a G5RV and a horizontal loop -- No beams, no vertical) (2) So you guys that suddenly get QSLs from me, begging for confirmation will realize what I'm up to.

ONE MORE TO GO!! Hawaii, you're mine!

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. - Benny Hill
WIMPS: Qs=001 30m=1 17m=0 12m=0 States=01/00/00

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [17940] QSLs thru QRZ
Message-ID: <199704211956.PAA08699@mh004.infi.net>

Gang, some time ago someone posted the protocol for receiving QSL info (addresses) from the QRZ database using email. Somehow, I lost the info. Can you repeat it?

I know how to get it from QRP-L, but the last time I had 25 addresses to look up, it took a couple of days to get the info. Also, I got a lot of good info that I didn't want, like distance in miles, Long. and Lat., etc. All I need are addresses.

Thanks in advance.

CUL,
Bob Kellogg, AE4IC, Greensboro, NC

Prolably, but not nececelery. - Benny Hill
WIMPS: Qs=001 30m=1 17m=0 12m=0 States=01/00/00

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [17949] QSLs Thru QRZ -Answered
Message-ID: <199704212129.RAA27982@mh004.infi.net>

Got the answer, Thanks to all!!

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. - Benny Hill
WIMPS: Qs=001 30m=1 17m=0 12m=0 States=01/00/00

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
Subject: [17895] question about OHR-100 VFO circuit mod
Message-ID: <2.2.32.19970421030115.0068deec@molsun.ophth.uiowa.edu>

hi all,

i've started putting my OHR-100 40m kit together, and have a question about a change in the tuning circuit i'd like to make. it's a real tiny change and I don't think it should cause any problems, but i'm still new at this, and making changes on my first transceiver makes me want to get other, more experienced, opinions.

instead of the 100k single turn pot used to tune the varactor diode, i'd like to use a 50k 10 turn pot i salvaged from a surplus scientific instrument. to keep the voltage range at the diode the same, i'd also decrease the other resistors in the voltage divider cicuit by 50% (22k R156 would go to 10k, and 2.4k R142 would go to 1.2k). By my calculations, the load on the regulated 9v would only increase by 70 uA.

this mod would change the RIT range, so i'd also decrease the 5k RIT pot. i'll probably start with a 1k pot for RIT control. this would decrease the RIT range by about 1/2 (1000-->500 hz). do most people feel they need 1000 hz RIT range, or is 500 sufficient for most work in qrp cw. i'd like to avoid having

to order a 2.5K pot to keep the range at 1000.

i haven't posted an ascii schematic of the relevant section, but if somebody wants it to answer the question, i'd be glad to.

i should also let you know that i haven't asked this question directly to OHR. i didn't want to put them on the spot about "approving" a modification. if anybody there (dick?) wants to answer on the list, i'd be grateful and wouldn't hold them to supporting the mod ;-)

--adam, n2brt/0 (tech+, studying/pracicing to upgrade).

adam-kanis@uiowa.edu

DNA - The original data transfer system with hi-fidelity propagation.

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
Subject: [17934] Read: QRP-L digest 700
Message-ID: <199704211859.NAA09169@inetgw.stp.guidant.com>

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Kory Hamzeh <kory@avatar.com>
Subject: [17945] RIT for the 38S
Message-ID: <Pine.BSI.3.91.970421133653.11502B-100000@avatar.avatar.com>

I'm about to start building my 38S, and I want to add support for RIT to it. However, I've heard a lot of horror stories. Has anyone come up with a workable RIT solution?

Thanks,
Kory
AC6RN

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: tahrens1@juno.com
Subject: [17881] see you on 40 from Big Bend
Message-ID: <19970420.171753.4887.0.tahrens1@juno.com>

Howdy folks - Heading over to Big Bend tomorrow (Monday Apr 21st). Will be there through Friday morning. Only operation will probably be after dark on Mon, Tue, Wed, & Thurs (around 10pm local). Also, probably only on 40, cuz I'd bet 30 will be closed down.

May try 80 meters too. Taking the Index, NC40, MMA Vertical, and a spool of wire. Not sure what type of trees/supports, etc will be available.

I'll snoop all over the band, but probably be hanging out around 7.036 - 7.038 (just to keep the fox freqs open, and give the digital guy something to aim at)! hehe

Hope to find some of you there!

cu

Tim W5FN

p.s. Hey Doc - I found the filter. Please send along your mailing address!

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [17933] SELL: Mint HW-9, QRP rigs, 2m HTs, Heath wattmeters, antennae
Message-ID: <Pine.3.89.9704211357.B9282-0100000@w3eax.umd.edu>

0) Heathkit HW-9 10-80 meter QRP CW transceiver with PSA-9 power supply and WARC band pack. Mint condition with all manuals and dust cover. \$360.

1) Ten-Tec 705 desk mic, new condition. \$80 new, asking \$60.

2) Heathkit HM-2140 dual peak/PEP wattmeter, 2 kW, exc. cond., \$90 w/manual.

- 3) Oak Hills 20m Explorer II, built by me, exc. cond., w/manual, \$105.
- 4) Heathkit HM-102 HF wattmeter, excellent condition, remotable sensor. \$40.4)
Heathkit HM-102 HF wattmeter, excellent condition, remotable sensor. \$40.4)
Heathkit HM-102 HF wattmeter, excellent condition, remotable sensor. \$40.4)
Heathkit HM-102 HF wa
ttmeter, excellent condition, remotable sensor.
\$40.
- 5) Ark 20 20m CW rig. Excellent condition, with keyer installed by S&S engineering. Comes with FREE Ramsey 20w linear amp. Manuals, box, etc. \$275.
- 6) Alinco DJ-F1T compact 2m handheld. Covers AM aircraft and 138-174 MHz. Like new, with battery, charger, manual, and duckie. \$155.
- 7) Ramsey 2m amplifier, 3 in gives 30 out. Excellent condition, \$40 with box and manual.
- 8) Spi-ro 20/40m trap dipole antenna. Half perfect, half weathered. \$30 (was \$75 new). About 66' long.
- 9) Archer Radio Shack Video selector switch. 15-1261. Two AUX above. Like new, \$15. I never used this (it's KA3RTE's).
- 10) Radio Shack HTX-212 50 watt 2m mobile rig. Like new, with bracket, mic, manual, and box. \$160.
- 11) Yaesu NC-50 dual-slot charger with CA-14 charging cups for FT-10/40/50 handhelds. In box, new condition, used maybe twice. \$135 new, asking \$90.
- 12) Sirio HP-2070 dual-band (2m/440) antenna, with UHF coupler (needs mount). Similar in size/performance to Diamond SG-7500. \$60 new, used once, asking \$45.

Thanks!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: AlK0FRP@aol.com
Subject: [17955] solar panels

Message-ID: <970421182321_112764513@emout19.mail.aol.com>

Gang

A friend in NC wnts to know where he can obtain a solar panel(s) that wil
deliver 12-16 volts at .5 (1/2) amp. the size about two standard paper 8 1/2
by 11 inches.
cost kept below \$150. ???? is it possible ???

Al K0FRP or contact him at genekq4av@worldnet.att.net

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Luis Alarcon Palencia <ea4dyp@arrakis.es>
Subject: [17902] Test - Please delete
Message-ID: <335B31F4.6ACA@arrakis.es>

Test

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "JakeCart" <JakeCart@ix.netcom.com>
Subject: [17951] Thanks for the help on kit building
Message-ID: <199704212154.QAA26868@dfw-ix14.ix.netcom.com>

Thanks to all who responded to my question about what is needed to start
kitbuilding. I received a dozen replies -- some within 10 minutes of my
posting!! The replies ranged from throwing myself on the mercy of Radio
Shack to offers from local guys to come on over and borrow their stuff. I
appreciate all the responses. My first purchase will be a good 25 watt
soldering rig -- Weller was the big winner there (and Fair Radio Sales).

73,

Jake [N4UY]
QRP-L #821, G-QRP #9557
WAS W/C 46/41 need HI, SD, DE and NJ (NJ??)
WAS QRP W/C 26/3

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [17943] The PPM, a PVC Pipe Mast (C/O KB2SIL)

Message-ID: <19970421.161837.7791.1.wb2vuo@juno.com>

My brother, John, KB2SIL has had one of these up for the last 4 years, which considering the CNY winter WX bodes well for the survivability. This was posted last year, so if you think you have seen it before, you probably have...

=====
This was originally posted on packet, and published in the BARK
(Brockport Amateur Radio Klub) newsletter and the Rochester VHF
Journal...Keith, WB2VUO

-

PPM: A Light-Duty PVC Pipe Mast

Over the 25+ years that I have been a ham. I have seen a few antenna supports, [and have built a few, myself]. One of my brothers, John, KB2SIL, has come up with a light-duty, inexpensive and easily built PVC Pipe Mast, PPM for short.

On John's first attempt on the PPM, he acquired (3) 10-foot lengths of 1 1/2" NPS PVC pipe. The actual outside diameter of this is 1.99", with a nominal ID of 1 1/2". He put the three lengths together with straight couplings and PVC cement. However, when he tried to raise the mast into the air, the cemented joints failed catastrophically, resulting in PVC hash and scraps all over the back yard. Something else needed to be done to improve the mast mechanically.

In PPM, Part II, John used a piece of the PVC for sleeves at each joint, cutting a pair of 2-foot lengths from some of the scrap, and splitting them lengthwise with a hacksaw. These split sleeves were held in place with four stainless steel hose clamps, two above, and two below the joint. This proved to be entirely adequate, and he set the mast up at the end of the house. Using a mast bracket, re-drilled for a larger U-bolt, and a set of light Nylon guys at the 20-foot level, he erected an 80 - 10 meter G5RV. This put the feedpoint up at 29-feet, just right for the 300-ohm twinlead, and the plastic mast doesn't affect the balance on the line!

As a bonus, and seeing that he didn't have his ticket back then, I checked out the antler for him. It plays as expected on not only 80 - 10 Meters, but also on 6 Meters. We were able to raise a 6-Meter repeater about 40 miles south of his QTH with around 3 watts. The SWR was normal for the HF ranges, being best on the 20 meter band, and was within the ATU's adjustment range on all the other HF bands.

John is in the Syracuse area, with a fairly well-sheltered back yard. Out here on the windswept flats [swamps] of Bergen, I wouldn't expect

the PPM to survive, unless I guyed it 6-ways to Sunday, but I am eyeing the leeward end of my barn as a possibility. I would think that the PPM would work well in almost any urban/suburban lot, and being PVC, one wouldn't have to worry about corrosion and/or water damage.

=====

If you try out John's PPM, drop me a line here.

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, KB2YTW/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [17879] Time conversions
Message-ID: <199704202300.QAA12353@dancris.com>

For those interested, I now have a part of my web site that gives a time conversion from UTC to Daylight time, as well as UTC to Standard time. Just follow the arrows from the UTC Conversion button.

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Robert D. Haslach" <rhaslach@CapAccess.org>
Subject: [17935] TS450SAT et aliae SOLD
Message-ID: <Pine.SUN.3.91-FP.970421144259.26165A-1000000@cap1.capaccess.org>

email me regrets only 8-)
and my thanks to all who participated in this Dutch auction. A Dutch auction - by the way (can't resist showing off sometimes) is one in which the price starts at an estimated "top" and declines. You can either grab the goods early and high (but be certain to get them) or wait for a cheaper price (and run the risk of not getting them). They use this system at the Aalsmeer Flower Auction in Holland.

Regards,

Robert D. Haslach
Bye

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
Subject: [17896] University surplus stores, good source for parts
Message-ID: <2.2.32.19970421030117.0069f30c@molsun.ophth.uiowa.edu>

hi,

for some of you, this will be too obvious, but others may not know,
and i'd like to clue them in on a potential source of some good
quality, __CHEAP__ surplus parts.

for those of you that live or work near a university, you might want
to check if they have a surplus store. the one at the university of
iowa is open to the public (though departments have priority). the
stuff that is there ranges from the bizarre to the great. prices
marked are usually only suggestions. usually if you bother
to ask for the price if you take 2 or 3, they'll give it to you for
1/2 - 1/3 of the marked price, if you take more than off their hands
(they want to get rid of this stuff).

for example, i just bought some modules used in instrumentation for
whole-animal physiology research. got 3 for \$5. from those 3 units
i was able to get 5 10-turn pots, each with a real nice turn-counter
knob, as well as a bunch of other high quality, metal knobs. i
haven't decided how many of the approximately 20 pc-mounted
multiturn trimmer pots i'm going to pull off. i'll probably use the
cases for radios or test eqpt.

btw, my work bench is a monstrosously heavy oak & maple library table
that i got at university surplus for \$25. covered it with a sheet
of painted mdf board, works great.

--adam, n2brt/0

adam-kanis@uiowa.edu

DNA - The original data transfer system with hi-fidelity propagation.

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Bob Hightower <ki7mn@dancris.com>
Subject: [17924] UTC Conversion
Message-ID: <199704211611.JAA06838@dancris.com>

Well, I was asleep at the switch when I sent the note out about UTC-Daylight conversions and forgot to leave the signature line on with the URL.

You can get there by going to <<http://www.dancris.com/~ki7mn>>. The table now shows both UTC-Standard and UTC-Daylight conversions.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=16 30=16 17=0 12=0 States=13/0/0 DX 0/0/0 QSL's=4

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Pete Meier -- WK8S <pmeier@tir.com>
Subject: [17920] Vendors - last call!
Message-ID: <199704211540.LAA12565@tir.com>

This the last call for any QRP vendor to gain some free publicity to your marketing niche...QRPers. If you would like to donate a prize to the Dayton ARCI FDIQ QRP Banquet and receive some free attention and advertising please contact me at once. I will publicly announce your company and thank you in front of the banquet attendees and place a likeness of you company logo on a poster displayed in the banquet hall.

If interested please email me and send a sample of your logo so I can make up the poster. Time is short now so please act at once.

Thank you for your interest,

Pete Meier WK8S
4181 Rural
Waterford, MI 48329
email pmeier@tir.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Vernon A. Hatley" <vhatley@flash.net>
Subject: [17944] WM-2 wattmeter questions
Message-ID: <199704212027.PAA08171@endeavor.flash.net>

Howdy gang,

I just finished building the OHR WM-2 QRP wattmeter; neat little wattmeter! As usual for all of the Oak Hills kits it built easily, aligned without a hitch and works great. But I do have a question I'm hoping some of our QRP "elmers" can answer. The little wattmeter can be operated from an internal 9 volt battery or 13.6 volt from an external source. The design has no voltage regulator. How can it read accurately and give the same readings from using different voltages to power it? I would think that if I aligned it while it was powered by a 9 volt battery then switched to a 13.6 volt supply, it would no longer be aligned. Wrong, it still reads the correct wattages. How can it do this? Thanks in advance.

--

KK5RO

Vernon A. Hatley
Shawnee, OK

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Don Faith <Faithd@worldnet.att.net>
Subject: [17953] Re: Dan's Centennial 80m (75m) SSB Kit
Message-ID: <335BE780.551E@worldnet.att.net>

Ed Tanton wrote:

>
> Hi Don... what's your impression of the overall quality of the kit? And is
> it true that the CW option is simply something you do?
> 72/73
> -----
> Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
>Hi Ed.

Not quite sure how to respond to the 'quality' issue: The board is mfr. by FAR circuits: it is a single sided board, the copper is tinned. Since it is single sided, it doesn't have (and doesn't need) plated through holes. The component side of the board is labeled w/ a light blue ink layout but it is a bit harder to read than the white layout markings used by most. I have found two _minor_ labeling miscues for a couple of the 0.1 mfd caps (C15, C18) but they are obvious.

The components appear to be fine: I don't work in electronics professionally so I don't know what are the "good" brands. As noted the board is fairly large (4.125 X 7.75) but is not densely populated (i.e. room for mods!). As noted, you need to provide your own case, mike, knobs and external connectors but it appears to be priced reasonably. I was pleased that it included the 10 turn pot. The manual has some step by step graphics (which do show where the parts go) but doesn't have any

photographs. It is not a Heathkit manual but I don't perceive any problems. The 9 Mhz VFO is supposed to be capable of a range of up to 8.5 to 9.5 Mhz max. (target range is 8.685 to 9.185) so that it should truly be able to cover the entire band (both CW (80 m) and phone (75 m) segments.

The CW option is basically an external oscillator circuit that you key and you operate the T/R switching manually. Heck, you might be able to feed the sidetone output from a keyer to generate the tone necessary to create the SSB equivalent of a CW signal. There are instructions and explanations regarding what is needed and an example circuit if you want to use CW with the unit.

The manual estimates that total cost for the kit, case and mike will be around \$100. Basically for a 75m sideband rig kit your choices are this (for \$74 + extras) or Dave Benson's Small Wonder's Lab unit (which may be a better kit: \$160 for kit, case and CW freq. output). A friend of mine already built one of those so I figured I'd try this one and see.

The true test will be how it works and I won't know that for a week or two at the earliest. Someone on the list indicated that there was an article for this rig published in one of the ham rags a year or so back (by Paul Daulton, K5WMS): You may want to check that out for circuit details or look up Dan's web page and get a copy of the manual. I have already bought a case: a Tentec JW-8 (which should be just barely large enough lengthwise).

I don't know if it makes a difference, but the kit came w/ NE612's (instead of 602's) but they are listed as an OK substitution.

Hope this helps.

73 (es 72) de N9WR, Don C. Faith

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Richard Sherman <srichard@aldus.northnet.org>
Subject: [17882] Re: Enamel remover for wire??
Message-ID: <3.0.1.32.19970420160520.006e35b0@aldus.northnet.org>

Joe N2CX wrote:

>How do you tell if your wire is this kind? The wire in question
>is "magnet" wire so it all looks like it has an enamelled outer
>coating. If it is dark brown (as is the case on older Litz wire)
>it probably will not be the heat-strip kind. If it is amber (well
>not yellow type amber, kind of a coppery amber) it may or may not
>be heat-resistant enamel. But if the "enamel" is green or red or

>violet or blue, it is a pretty good bet that you have wire insulated
>with heat-strip insulation so try it out.

Just to add to Joe's comments, I tested the Radio Shack magnet wire and found it to be heat strippable. Also the magnet wire I got from Dan's Small Parts was heat strippable.

YMMV,

72 de Rick WZ2T NNY

srichard@northnet.org

---If you're not part of the solution,
You're part of the precipitate.---
Steven Wright

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: RFMooreJr@aol.com
Subject: [17898] Re: Enamel remover for wire??
Message-ID: <970420233906_-401179383@emout10.mail.aol.com>

In a message dated 97-04-20 02:51:48 EDT,
Gary, W2UX, wrote

>This has been beat around before I'm sure. But what is the best solvent
>for getting the enamel off my toroid coil wire ends? I should also ask
>what is readily available because the correct and best stuff is not always
>available locally.

>I have scraped it off....cautiously....but I know that is not the way it
>should be done.

Keep scraping!! A long thread in sci.electronics.design within the last few months seemed to conclude that any solvent powerful enough to remove the "enamel" would also dissolve your brain, eat through the earth to VK land, and cause (a) nuclear winter and/or (b) intolerable global warming. Of course these risks never stopped us before ...

GL - Bob KV1V

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Joe Everhart <n2cx@voicenet.com>
Subject: [17904] Re: Gusher-II QRP Antennas
Message-ID: <199704211116.HAA07536@mail3.voicenet.com>

Gang, whew good response! So good that the few ones I had remaining are spoken for.

I will have a redesign - lighter weight and two different versions -a monoband and a multi-band Gusher at Dayton. Will announce details shortly.

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>

Subject: [17917] Re: Hamcalc version 27

Message-ID: <97Apr21.105801-0400_edt.10447-20182+4@hooch.cc.Lehigh.EDU>

> I have not been able to find the latest version of Hamcalc V-27 on the
> internet, for downloading. If anybody knows where it is, please advise.

HamCalc version 27 (25 Mar 1997) is available at:

<ftp://ftp.lehigh.edu/pub/listserv/qrp-1/tools/hcal-27.txt>

<ftp://ftp.lehigh.edu/pub/listserv/qrp-1/tools/hcal-27.zip>

Many thanks to Murph, VE3ERP.

73

Jim N3VXI

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Chris Cartwright <ccart@dns.vidtel.com>

Subject: [17907] Re: helium balloons as portable antenna supports.

Message-ID: <Pine.LNX.3.93.970421080944.438B-100000@dns.vidtel.com>

On Mon, 21 Apr 1997, Bernie Doehner wrote:

> But in order to pull this off, I have to find a cheap source for small
> Helium bottles (or other way to make a gas that's lighter than air and not

To "play" with I'd go to a Price Club or Sam's Club and get their party pack. Has a cylinder about the size of one of those on a gas grill and goes for about 25 bucks. You could always rent one from a party store if you didn't mind filling your antenna using a clown's head, hi.

For long term I'd ask a local welder where he "gasses up". The tanks are expensive but the gas is much much cheaper.

```
-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --  
-- Phone 301.990.0735 N3XRV QRP-L #655 | ccart@erols.com --  
-- QRP WAS 14/8 (w/c) QRP-ARCI #9271 | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=00 30M=00 17M=00 12M=00 STATES=00/00/00 DX=00/00/00 QSL's=00 --
```

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: David.Reid@asml.nl (David Reid)
Subject: [17908] Re: helium balloons as portable antenna supports.
Message-ID: <199704211316.PAA11008@wspub002.asml.nl>

Bernie,

>Just wondering - has anyone on this list ever played with helium filled
>party balloons as a portable antenna support?

>I had this crazy idea, that when driving to a nearby mountain top, I could
>easily support a thin long wire from a party balloon and tune it against
>the body of my car.

Try condoms - they work a treat.... for taking a light wire skyward
(I used hydrogen first off - but after a spectacular hindenburg one eve
I now use helium - I bought it from a local chemist shop... try Those
types of places - look under 'oxygen suppliers' or medical supplies.

3 jonnys can get an 22 gauge (english SWG) wire skyward for topband (1/4 w)

good luck - and if you use helium, you can leave the speech processor at home.
HI

73 DE Dave PA3HBB / G0BZF

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Paul R. Valko" <prvalko@oakland.edu>
Subject: [17909] Re: helium balloons as portable antenna supports.
Message-ID: <Pine.OSF.3.95.970421091006.27419A-100000@vela.acs.oakland.edu>

On Mon, 21 Apr 1997, Bernie Doehner wrote:

> Just wondering - has anyone on this list ever played with helium filled
> party balloons as a portable antenna support?

Oh oh... here we go again...

> I had this crazy idea, that when driving to a nearby mountain top, I could
> easily support a thin long wire from a party balloon and tune it against
> the body of my car.

Bernie, you are right, it is a crazy idea. Unfortunately, many folks on this very list keep up discussions of balloon and kite supported antenna without ever thinking of the dangers involved. Besides the very real danger of electrostatic discharge (something like 50v/meter), the real problem is that most people only use the actual wire as the only flyline to the antenna/balloon. When (not if, when) one of these "antennas" breaks free and eventually flies off across some power lines... you get the picture?

Let me paint it a tad more clearly. When those pretty balloons or kite come down, I think the handy wire drapped across God knows what type of power line, is going to look mighty inviting to some little child.

So the odds of this happening may be slim, but people, if you use your head and only support antennas on solid structures well clear of power lines, there is ZERO chance of a tragedy like the above.

73 =paul= w8kc

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bill Todd <bill@techline.com>
Subject: [17923] Re: helium balloons as portable antenna supports.
Message-ID: <1.5.4.32.19970421160205.006b97e4@mail.techline.com>

At 09:28 AM 4/21/97 -0400, you wrote:

>

>On Mon, 21 Apr 1997, Bernie Doehner wrote:

>

>> Just wondering - has anyone on this list ever played with helium filled
>> party balloons as a portable antenna support?

W8KC Wrote:

>When those pretty balloons or kite come down, I think the handy wire
drapped across God knows what type of power line, is going to look mighty
inviting to some little child.

Paul is right! However, I wonder if you could attach something like a 8
pound nylon test line between the balloon and the wire - so that if the
balloon pulls away, the line would break at the nylon, rather than in the
middle of the wire?

To be sure about this system - it would be better not to use something like
light weight magnet wire (like 22 - 24 gauge), but instead, try a heavier wire.

You might not be able to get quite as much wire up in the air, but it would
be safer.

CUL, Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [17926] Re: helium balloons as portable antenna supports.
Message-ID: <199704211656.JAA10135@dancris.com>

>Date: Mon, 21 Apr 1997 09:22:12

>To: bill@techline.com

>From: Bob Hightower <ki7mn@dancris.com>

>Subject: Re: helium balloons as portable antenna supports.

>

>At 09:02 AM 4/21/97 -0700, you wrote:

>

>>W8KC Wrote:

>>>When those pretty balloons or kite come down, I think the handy wire

>>drapped across God knows what type of power line, is going to look mighty
>>inviting to some little child.

>>

>>Paul is right! However, I wonder if you could attach something like a 8
>>pound nylon test line between the baloon and the wire - so that if the
>>balloon pulls away, the line would break at the nylon, rather than in the
>>middle of the wire?

>>

>

If you are going to do this, I would connect the antenna to the balloon by a
loop, that is one end fastened to the antenna, loop it through an attachment
to the balloon, and the free end connected to something at the station. This
way, if the wire or line broke, the end would pull through the attachment at
the balloon, letting it go free with nothing dangling. The attachment at the
station end would make this happen.

Of course you have to be sure that you are nowhere near any power lines that
the antenna portion might come in contact with.

Crude drawing follows:

```

              o
            o  o  Balloon
              o
              u   loop through which line runs
              | |
              | |   line
              | *
              | *   antenna
              | *
              | *
to stake    /  \   to rig
```

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ Grid DM43bi Lat 33.334500 Long
-111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=16 30=16 17=0 12=0 States=13/0/0 DX 0/0/0 QSL's=4

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Bernie Doehner <bad@uhf.wireless.net>

Subject: [17956] Re: helium balloons as portable antenna supports.

Message-ID: <Pine.BSF.3.95.970421185214.24385A-100000@uhf.wdc.net>

> >When those pretty balloons or kite come down, I think the handy wire
> draped across God knows what type of power line, is going to look mighty
> inviting to some little child.
>
> Paul is right! However, I wonder if you could attach something like a 8
> pound nylon test line between the baloon and the wire - so that if the
> balloon pulls away, the line would break at the nylon, rather than in the
> middle of the wire?

Kite string is also plenty and designed not to break if properly matched
to the kite.

> To be sure about this system - it would be better not to use something like
> light weight magnet wire (like 22 - 24 gauge), but instead, try a heavier wire.

Right. Actualy of immediate interest would only be a 16.5' 1/4 wave
vertical for the mobile and I could use much heavier wire because of the
short length.

> You might not be able to get quite as much wire up in the air, but it would
> be safer.
>

Absolutely, safety first.

Btw, someone mentioned a QST article on helium filled baloons as supports.
I stopped by the library today and could find this article. I thought it
was supposed to be in May's issue?

Bernie

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Stanley Wilson <microres@crl.com>
Subject: [17911] Re: IS the days of Micropower limited ?
Message-ID: <Pine.SUN.3.91.970420192712.14088B-100000@crl3.crl.com>

Hi Bernie,

FB on the frequency hopping 50 mhz SS rig. How are you changing the
frequency of the hops and how much time at each frequency ?

I looked at a PLL with a serial port and I could not change it fast
enough for 900 mhz with a uP. Thought about using a EPROM for coding.

Thanks, Stan

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Stanley Wilson <microres@crl.com>
Subject: [17936] Re: IS the days of Micropower limited ?
Message-ID: <Pine.SUN.3.91.970421120152.20365A-100000@crl10.crl.com>

URL for the NPRM on spread spectrum is as follows:

<http://www.fcc.gov/Bureaus/Wireless/Notices/1997/fcc97010.txt>

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Luis Alarc n Palencia <ea4dxd@arrakis.es>
Subject: [17900] Re: Mini Tuner
Message-ID: <335B2E21.7040@arrakis.es>

Frank G3YCC wrote:

>

> The circuit for the min tuner is now available:

> <http://www.demon.co.uk/minitnr.htm>

> Frank G3YCC

> QRP Web Site: <http://www.gqrpclub.demon.co.uk>

Fine work Frank! but the correct URL is:

<http://www.gqrpclub.demon.co.uk/minitnr.htm>

72, 73 Luis EA4DXP

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [17931] Re: Mini Tuner
Message-ID: <861643488.056502.0@gqrpclub.demon.co.uk>

Minituner htm - typo

00ps! Sorry, it should be:

<http://www.gqrpclub.demon.co.uk/mintnr.htm>

Frank G3YCC

QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [17941] Re: My HomePage, Pictures of weirdos +c
Message-ID: <199704212015.PAA24704@multi13.netcomi.com>

> ><<http://members.aol.com/nilsbull/index.htm>> is the starting point. Or
slip to
> ><.../radio.htm> if you don't wanna see the goofy geezer +c.

Candy for the brain, eleven essential vitamins and minerals for the eyes,
and pasta for the soul.

Food for thought?
Recommended.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: JEVERHART@cayman.vf.mmc.com
Subject: [17916] Re: portable antenna mast, etc.
Message-ID: <970421095813.2066be03@cayman.vf.mmc.com>

Duane,

Aha, another PVC pipe enthusiast! My interest in them was first piqued by the
book "Simple Antennas for Radio Amateurs" by Ed Noll.

I have read your description and seen the pix on your web page, so I think I
know where you are coming from.

I went thru some experimentation on similar masts a while back. I came to
several conclusions.

1. Horizontal HF antennas need to be at least 15 to 20 feet off the ground or
the results will be disappointing.
2. PVC pipe is neat stuff and handy to work with, but the smaller sizes are
very flimsy when put up at a usable height.

I put out an article in QRPP on a home PVC pipe mast (it is still up and working fine!) and then came up with a portable PVC mast that appeared in the NEQRP newsletter, 72. Dubbed the 20-30 Portable PVC Mast, it was also an NEQRP club project.

The 20-30 consists of four 5-foot sections of 1-1/4 PVC pipe joined by internal couplers to form a 20 foot guyed mast. It isn't intended for inverted vee or vertical type antennas and has been in use for a year and a half or so by me and a number of other folks.

You can check it out in 72 (April '96 as I recall) for the construction article and a review with pix in the July issue.

The 20-30 is still available from NEQRP as a semi-kit with all hardware, a 20-plus page manual and wire and a center insulator for an inverted vee dipole - you supply the PVC pipe.

contact me at n2cx@voicenet.com for more info on the 20-30.

72/73,

Joe E., N2CX

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Mike Cloud <cloudm@mhsgate.meth-mem.org>

Subject: [17910] RE: QRP+ List

Message-ID: <C0255B3301462936@mhsgate.meth-mem.org>

>As to a QRP owner listing--I will be happy to do whatever I can to keep
>this alive. Still stand by my original idea of having a central list,
>etc. Several guys have already written with theirs. OTOH, I am not
>trying to get in anyone else's business, nor trying to do something as
>I have nothing *else* to do!

>

>72/73,

>--Doc/K0EVZ qrp-l 861 mn-qrp 19

>

>

How many ya got Doc? I think I copied earlier that some guy has
SN #100. Is a preliminary list available? CUL de Mike, KR4IT

From owner-qrp-l@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Stanley Wilson <microres@crl.com>

Subject: [17957] Re: solar panels

Message-ID: <Pine.SUN.3.91.970421155026.18787B-100000@crl5.crl.com>

Try Sunelco 1-800-338-6844

they have a MSX-10 10 watts 17.5 vdc at .57 amps 11" x 17 " for \$132.

Ask about used solar panels you might save a lot.

de stan ak0b

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997

From: Stanley Wilson <microres@crl.com>

Subject: [17948] Re: WM-2 wattmeter questions

Message-ID: <Pine.SUN.3.91.970421135943.24191A-100000@crl2.crl.com>

The power reading is based on the input power to the unit and not the supply voltage of the unit. OHR did a good job on the design and it is not voltage sensitive. The gain of the op amps do not depend upon the supply voltage as long as the values do not drive it to the rails.

If the unit depend upon the supply volage the readings would not be correct as the battery runs down. think you will like the unit, I certainly like my WM-1 and I am normally critical of others designs. hi

de stan ak0b

On Mon, 21 Apr 1997, Vernon A. Hatley wrote:

> Howdy gang,
> I just finished building the OHR WM-2 QRP wattmeter; neat little
> wattmeter! As usual for all of the Oak Hills kits it built easily,
> aligned without a hitch and works great. But I do have a question
> I'm hoping some of our QRP "elmers" can answer. The little wattmeter
> can be operated from an internal 9 volt battery or 13.6 volt from an
> external source. The design has no voltage regulator. How can it
> read accurately and give the same readings from using different
> voltages to power it? I would think that if I aligned it while it
> was powered by a 9 volt battery then switched to a 13.6 volt supply,
> it would no longer be aligned. Wrong, it still reads the correct
> wattages. How can it do this? Thanks in advance.
> --
> KK5RO

> Vernon A. Hatley
> Shawnee, OK
>
>

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: Stanley Wilson <microres@crl.com>
Subject: [17947] Re: your mail
Message-ID: <Pine.SUN.3.91.970421140343.24191B-100000@crl2.crl.com>

hi Marty, behind the meters is where I put mine. Install the meters and the coax/rca jacks then position the PC board to make sure you do not interfere.

One hint.... If your switch (12 pos) will rotate 360 degrees, pick position 1 - one more position around the switch than normal. The highest RF voltage in the unit exists at position one (top of coil). If you try running more than 5 or 10 watts you may get a RF arc from position one of the switch to the switch frame. Since you can really call any position one and adjust it mechanically in the case so the pos you picked is also pos 1 for the panel layout you will have moved the high voltage point about 1/4 " good for a nother 10 watts input. hi

know from experience. I later changed the RS switch with metal frame out for one that had a plastic frame from Mouser or digi-key.

I actually flamed the first switch. Panic to be removing a cover with fire on the inside of a case. hi

Nice unit think you will like it. de stan ak0b

From owner-qrp-1@Lehigh.EDU Mon Apr 21 18:03:55 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [17952] Re: your mail
Message-ID: <335ce00a.424509526@smtp.usit.net>

On Mon, 21 Apr 1997 14:09:08 -0700 (PDT), Stanley Wilson
<microres@crl.com> wrote:

>hi Marty, behind the meters is where I put mine. Install the meters and=
=20
>the coax/rca jacks then position the PC board to make sure you do not=20

>interfer.
>
>
>One hint.... If your switch (12 pos) will rotate 360 degrees, pick=
>position 1 - one more position around the switch than normal. The=
>highest RF volatage in the unit exists at position one (top of coil). =
If=
>you try running more than 5 or 10 watts you may get a RF arc from=
>position one of the switch to the switch frame. Since you can really=
>call any position one and adjust it mechanically in the case so the pos=
>you picked is also pos 1 for the panel layout you will have moved the=
>high volate point about 1/4 " good for a nother 10 watts input. hi
>
>know from experience. I later changed the RS switch with metal frame=
>out for one that had a plastic frame from Mouser or digi-key.

I guess I'll have to watch when I build it. I don't know what type
of switch I have, other than metal frame. It's open -- not
enclosed. What is the "normal" orientation for these switches? The
only distinction I can make is the input lead -- what clock position
should the input lead or stabilizer tab be?

I can do it any way that works -- I think it will be more than I
bargained for to build the tapped inductor and solder to the switch
anyway! Unfortunately, the pins aren't numbered on the switch, and
I'll not know if the tap is minimum/maximum or any other inductance.
The panel doesn't care -- it's not calibrated. But I'd think that
minimum inductance would be placed somewhere near the 9 o'clock
position (looking from the front).

72 es 73 de=
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
